

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| S1    | 1    | (proton near conductor) and (polybenzimidazole) and (sulfonic near acid) and (titania near particles) | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/06/15 23:01 |
| S2    | 78   | (proton near conductor) and (polybenzimidazole) and (sulfonic near acid) and (particles)              | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/06/15 23:12 |
| S3    | 25   | (proton near conductor) and (polybenzimidazole) and (sulfonic near acid) and (titania same particles) | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/06/15 23:15 |
| S4    | 138  | (hojo same nobuhiko.in.) or (jikura same junji.in.) or (yamamoto same taisuke.in.)                    | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/06/20 15:34 |
| S5    | 3    | S4 and proton near conductor  | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/06/20 15:35 |
| S6    | 25   | (proton near conductor) and (polybenzimidazole) and (sulfonic near acid) and (titania same particles) | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/06/20 15:57 |
| S7    | 0    | S6 and (proton near conductor) near electrode   | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/06/20 15:57 |

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| S8  | 11  | S6 and (proton near conductor) same electrode                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 15:57 |
| S9  | 734 | (proton near conductor) same electrode   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 15:58 |
| S10 | 632 | (proton near conductor) near15 (electrode or anode or cathode)                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:00 |
| S11 | 11  | S10 and S6   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:00 |
| S12 | 4   | S10 and (proton near conductor) same (polybenzimidazole) same (sulfonic near acid) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:02 |
| S13 | 501 | (proton near conductor) near15 (electrode)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:02 |
| S14 | 104 | (proton near conductor) near (electrode)   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:02 |
| S15 | 2   | S14 and (proton near conductor) same (polybenzimidazole) and (sulfonic near acid)  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:03 |

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| S16 | 4  | S14 and (proton near conductor) same (polybenzimidazole)      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:03 |
| S17 | 0  | (proton near conductor) near coating near (electrode)         | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:06 |
| S18 | 13 | (proton near conductor) near15 coating near15 (electrode)     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:06 |
| S19 | 2  | S18 and polybenzimidazole                                     | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:08 |
| S20 | 2  | S19 and sulfonic near acid                                    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/20 16:08 |
| S21 | 3  | (proton near conductor) same (second near layer)              | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/21 11:19 |
| S22 | 5  | (proton near conductor) same (first near layer)               | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/21 11:21 |
| S23 | 16 | (proton near conductor) and (porous same (second near layer)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/21 11:22 |

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| S24 | 163 | (proton near conductor) and (porous same (layers)) | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/21 11:24 |
| S25 | 131 | S24 and fuel near cell                             | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/21 11:24 |
| S26 | 16  | S25 and polybenzimidazole                          | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/21 11:26 |

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